

高速整流ダイオード

FAST RECOVERY DIODE

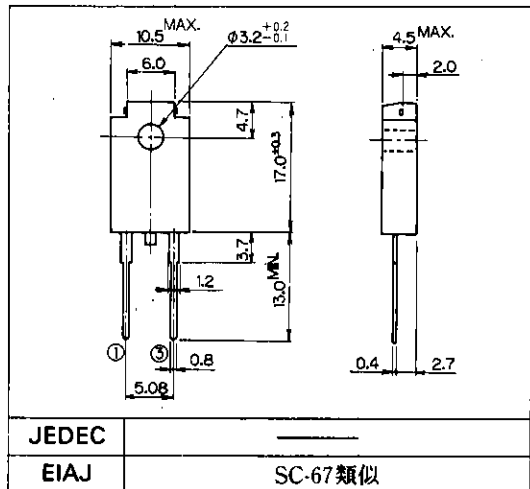
■ 特長 : Features

- 取り付け面が絶縁されたフルモードタイプ
Insulated package by fully molding
- スイッチングスピードが非常に速い
Super high speed switching
- ターンオン電圧が低い
Low V_F in turn on
- 高信頼性
High reliability

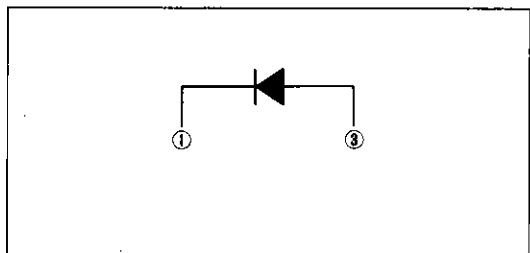
■ 用途 : Applications

- 高速スイッチング
High speed switching.

■ 外形寸法 : Outline Drawings



■ 電極接続と内部結線 Connection Diagram



■ 定格と特性 : Maximum Ratings and Characteristics

● 絶対最大定格 : Absolute Maximum Ratings

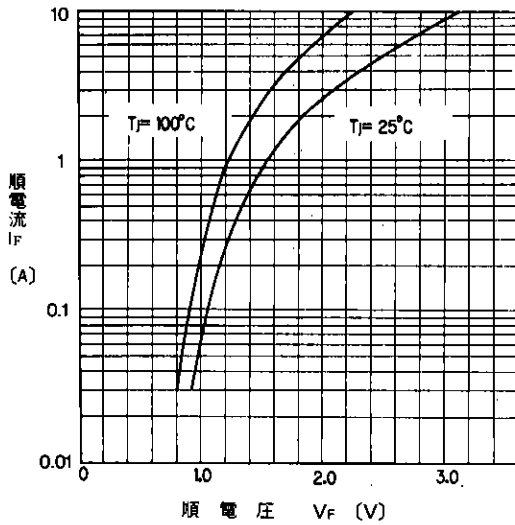
| Items | Symbols | Conditions | Ratings | Units |
|--|-----------|---|----------|------------------|
| | | | -10 | |
| ピーク繰り返し逆電圧 Repetitive Peak Reverse Voltage | V_{RRM} | | 1000 | V |
| ピーク非繰り返し逆電圧 Non-Repetitive Peak Reverse Voltage | V_{RSM} | | 1000 | V |
| 平均出力電流 Average Output Current | I_O | 方形波, duty=1/2, $T_c=107^\circ\text{C}$ Square wave | 4 | A |
| サージ電流 Surge Current | I_{FSM} | 正弦波 Sine wave 10ms 定格負荷状態より | 50 | A |
| 接合温度 Operating Junction Temperature | T_J | | -40~+150 | $^\circ\text{C}$ |
| 保存温度 Storage Temperature | T_{stg} | | -40~+150 | $^\circ\text{C}$ |

● 電気的特性 (特に指定がない限り周囲温度 $T_a=25^\circ\text{C}$ とする)

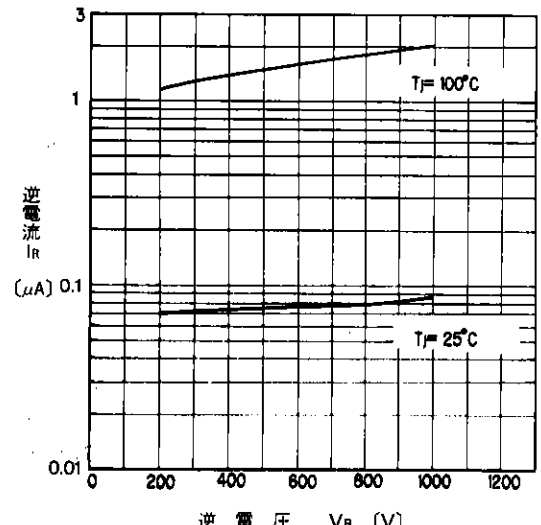
Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

| Items | Symbols | Conditions | Max. | Units |
|--------------------------------|---------------|------------------------------------|------|---------------------------|
| 順電圧 Forward Voltage Drop | V_{FM} | $I_{FM}=4\text{A}$ | 3.0 | V |
| 逆電流 Reverse Current | I_{RRM} | $V_R=V_{RRM}$ | 10 | μA |
| 逆回復時間 Reverse Recovery Time | t_{rr} | $I_F=0.1\text{A}, I_R=0.1\text{A}$ | 0.3 | μs |
| 熱抵抗 Thermal Resistance | $R_{th(j-c)}$ | 接合・ケース間 junction to Case | 3.5 | $^\circ\text{C}/\text{w}$ |

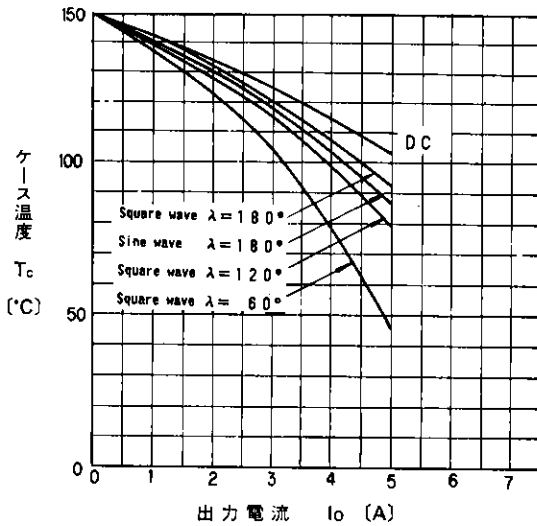
■特性曲線：Characteristics



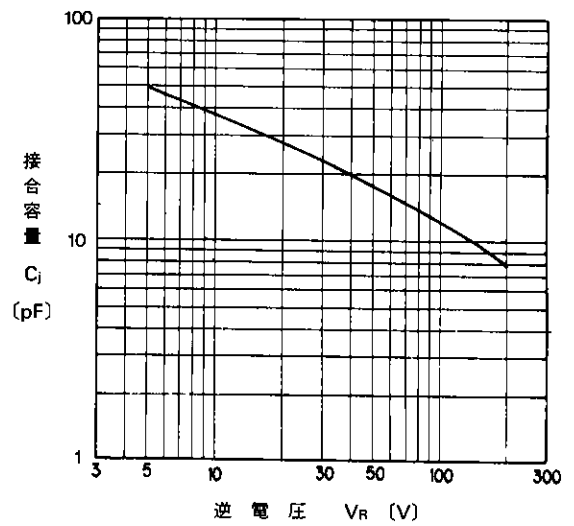
順特性 (代表特性)
Forward Characteristics



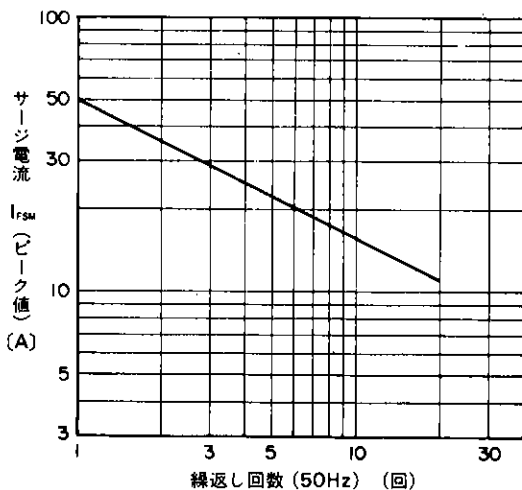
逆特性 (代表特性)
Reverse Characteristics



出力電流—ケース温度特性
Output Current-Case Temperature

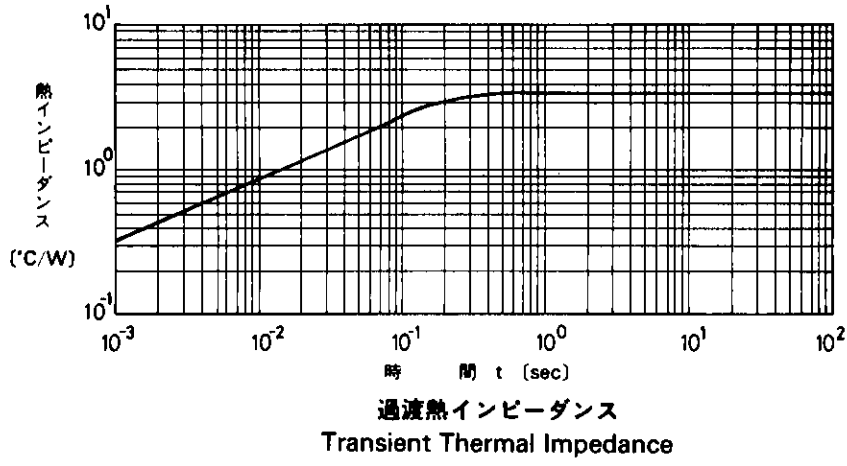


接合容量特性(代表特性)
Junction Capacitance



サージ電流耐量
Surge Capability

A



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